

Title (en)

Bottle neck structure and manufacturing method therefor.

Title (de)

Flaschenhalsstruktur und deren Herstellungsverfahren.

Title (fr)

Structure d'un col de bouteille et son procédé de fabrication.

Publication

EP 0415109 B1 19950920 (EN)

Application

EP 90114714 A 19900731

Priority

- JP 19998989 A 19890731
- JP 34481489 A 19891231

Abstract (en)

[origin: EP0415109A1] A bottle neck structure (1) of a synthetic resin bottle with a preliminarily molded synthetic resin core member (2) embedded therein is disclosed. The bottle neck structure comprises the resin core member (2) which has a cylindrical body (3) constituting the wall of a bottle neck and a flange (7) constituting a support ring of the bottle neck, at least one exposed surface to be in contact with a neck mold when a bottle preform is molded, and a plurality of through-holes (15) formed in the circumferential wall of the cylindrical body.

IPC 1-7

B65D 1/02

IPC 8 full level

B29B 11/08 (2006.01); **B29B 11/12** (2006.01); **B29C 45/14** (2006.01); **B29C 49/00** (2006.01); **B29C 49/02** (2006.01); **B29C 49/06** (2006.01); **B29C 49/08** (2006.01); **B29C 49/20** (2006.01); **B65D 1/02** (2006.01); **B65D 23/00** (2006.01); **B29L 22/00** (2006.01)

CPC (source: EP KR US)

B29C 45/14344 (2013.01 - EP KR US); **B29C 49/02** (2013.01 - EP US); **B29C 49/06** (2013.01 - KR); **B29C 49/071** (2022.05 - EP KR US); **B29C 49/20** (2013.01 - EP KR US); **B65D 1/023** (2013.01 - EP KR US); **B29C 49/06** (2013.01 - EP US); **B29C 49/6605** (2022.05 - EP); **B29C 2045/1436** (2013.01 - EP KR US); **B29C 2049/2026** (2013.01 - EP KR US); **B29C 2949/0715** (2022.05 - EP); **B29C 2949/072** (2022.05 - EP US); **B29C 2949/0723** (2022.05 - EP KR US); **B29C 2949/073** (2022.05 - EP US); **B29C 2949/0732** (2022.05 - EP KR US); **B29C 2949/0744** (2022.05 - EP KR US); **B29C 2949/0745** (2022.05 - EP KR US); **B29C 2949/0769** (2022.05 - EP KR US); **B29C 2949/077** (2022.05 - EP US); **B29C 2949/0773** (2022.05 - EP KR US); **B29C 2949/0776** (2022.05 - EP KR US); **B29C 2949/0777** (2022.05 - EP KR US); **B29C 2949/0778** (2022.05 - EP KR US); **B29C 2949/08** (2022.05 - EP US); **B29C 2949/0819** (2022.05 - EP KR US); **B29C 2949/0828** (2022.05 - EP KR US); **B29C 2949/26** (2022.05 - EP KR US); **B29C 2949/28** (2022.05 - EP KR US); **B29C 2949/3008** (2022.05 - EP US); **B29C 2949/3009** (2022.05 - EP KR US); **B29C 2949/3012** (2022.05 - EP US); **B29C 2949/3014** (2022.05 - EP KR US); **B29C 2949/3016** (2022.05 - EP KR US); **B29C 2949/302** (2022.05 - EP KR US); **B29C 2949/3024** (2022.05 - EP US); **B29C 2949/3026** (2022.05 - EP US); **B29C 2949/3028** (2022.05 - EP US); **B29C 2949/303** (2022.05 - EP KR); **B29C 2949/3032** (2022.05 - EP KR US); **B29C 2949/3034** (2022.05 - EP US); **B29C 2949/3036** (2022.05 - EP KR US); **B29C 2949/3056** (2022.05 - EP US); **B29C 2949/3058** (2022.05 - EP US); **B29C 2949/306** (2022.05 - EP KR US); **B29K 2105/253** (2013.01 - EP KR US); **B29L 2001/00** (2013.01 - EP KR US)

Cited by

US5588544A; DE102013107978A1; US5678711A; EP1224966A3; FR2944574A1; EP2311624A4; WO2005097453A1

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

EP 0415109 A1 19910306; **EP 0415109 B1 19950920**; DE 69022516 D1 19951026; DE 69022516 T2 19960404; HK 1007723 A1 19990423; JP H04144730 A 19920519; KR 100187765 B1 19990601; KR 910002677 A 19910226; US 5588544 A 19961231

DOCDB simple family (application)

EP 90114714 A 19900731; DE 69022516 T 19900731; HK 98106963 A 19980626; JP 20421890 A 19900731; KR 900011837 A 19900731; US 92558492 A 19920803